

T:0450

264974be.app  
SEQUENCE LISTING

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<110> CHOO, YEN  
KLUG, AARON  
ISALAN, MARK

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<130> 71278/264974/BET

<140> 09/424,482

<141> 2000-02-29

<150> 09/424,482

<151> 1999-11-23

<150> PCT/GB98/01510

<151> 1998-05-26

<150> GB 9710809.6

<151> 1997-05-23

<160> 114

<170> PatentIn version 2.1

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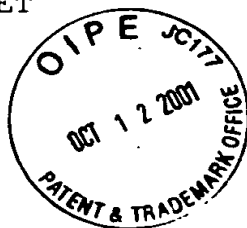
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46

c

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 1-5 residues

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 1 5 10 15

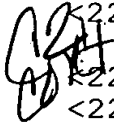
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 20 25 30

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<223> Positions 8-10 may vary in length from  
2-3 residues

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Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His  
20

<210> 6

<211> 4

<212> PRT

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Thr Gly Glu Lys  
1

<210> 7

<211> 5

<212> PRT

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Thr Gly Glu Lys Pro  
1 5

<210> 8

<211> 26

<212> PRT

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<223> Description of Artificial Sequence: Consensus  
structure sequence

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp  
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly  
20 25

<210> 9

<211> 29

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Consensus  
structure sequence

<400> 9

Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn  
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro  
20 25

<210> 10

<211> 6

<212> PRT

<213> Artificial Sequence

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<400> 10

Met Ala Glu Glu Lys Pro  
1 5

<210> 11

<211> 9

<212> DNA

<213> Artificial Sequence

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9

<210> 12

<211> 9

<212> DNA

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interaction sequence

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cgcccacgc

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0017  
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<211> 9

<212> DNA

<213> Artificial Sequence

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interaction sequence

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acgcccacg

9

<210> 14

<211> 9

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger-DNA  
interaction sequence

<400> 14

gcgtgggcg

9

<210> 15  
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 acgccgnnn  
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 LIB-B Zinc finger

<400> 16  
 Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg  
 1 5 10 15

Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr  
 20 25 30

Gly Gln Lys Pro  
 35

<210> 17  
 <211> 28  
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<220>  
 <223> Description of Artificial Sequence: LIB-A and



## LIB-B Zinc finger 2

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (18)

&lt;223&gt; Any amino acid

&lt;400&gt; 17

Phe	Gln	Cys	Arg	Ile	Cys	Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	Asp	Leu
1				5					10					15	

Thr	Xaa	His	Ile	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro
			20					25			

&lt;210&gt; 18

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: LIB-B Zinc finger 3

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (12)

&lt;223&gt; Any amino acid

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (14)

&lt;223&gt; Any amino acid

&lt;400&gt; 18

Phe	Ala	Cys	Asp	Ile	Cys	Gly	Arg	Lys	Phe	Ala	Xaa	Ser	Xaa	Asp	Arg
1				5					10					15	

Lys	Arg	His	Thr	Lys	Ile	His	Leu	Arg	Gln	Lys	Asp
			20					25			

&lt;210&gt; 19

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: LIB-A Zinc

finger 3

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (12)..(15)

&lt;223&gt; Any amino acid

&lt;400&gt; 19

Phe	Ala	Cys	Asp	Ile	Cys	Gly	Arg	Lys	Phe	Ala	Xaa	Xaa	Xaa	Xaa	Arg
1				5				10						15	

Lys	Arg	His	Thr	Lys	Ile	His	Leu	Arg	Gln	Lys	Asp
			20				25				

&lt;210&gt; 20

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Zinc finger peptide

&lt;400&gt; 20

Arg	Leu	Glu	Tyr
1			

&lt;210&gt; 21

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Zinc finger peptide

&lt;400&gt; 21

Arg	Ser	Glu	Asp
1			

&lt;210&gt; 22

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 22

Arg His Thr His  
1

<210> 23

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 23

Arg Ser Ser Glu  
1

*CR*  
*CONF*  
<210> 24

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 24

Arg Ser Ser Ala  
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<210> 25

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 25

Gln Val Thr Thr

1

<210> 26  
<211> 4  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 26  
Gln Ser Gly Asp  
1

<210> 27  
<211> 4  
<212> PRT  
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 27  
Gln Leu Ala Thr  
1

<210> 28  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 28  
Gln Asp Ala His  
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<210> 29  
<211> 4  
<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 29

Gln Arg Ala Ser

1

<210> 30

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 30

Gln Ser Thr Ser

1

<210> 31

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 31

Ser Ser Gly Asp

1

<210> 32

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 32  
Ser Ala Ser Ala  
1

<210> 33  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 33  
Asn Ser Gly Asp  
1

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Leu Val Gln Asn  
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<210> 35  
<211> 4  
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peptide

<400> 35  
Thr Gly Ala Ser  
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<210> 36

<211> 4  
<212> PRT  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 36  
Thr Pro Ser Gly  
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<210> 37  
<211> 4  
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peptide

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*0012*  
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Thr Gln Thr Ala  
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<210> 38  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 38  
Thr Ser Ala Ala  
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<210> 39  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger

peptide

<400> 39

Asp Thr Ser Val

1

<210> 40

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 40

Asp Ala Ser Thr

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<210> 41

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 41

Asp Ala Ser Ala

1

<210> 42

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 42

Asp Thr Ser Ser

1

601

C



<210> 43  
<211> 4  
<212> PRT  
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<223> Description of Artificial Sequence: Zinc finger  
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<400> 43  
Arg Asn His Asp  
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<210> 44  
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<223> Description of Artificial Sequence: Zinc finger  
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Arg Ser Thr Asp  
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<210> 45  
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<400> 45  
Arg Ser Thr Asp  
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<210> 46  
<211> 4  
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peptide

<400> 46

Ser Arg His Ser

1

<210> 47

<211> 4

<212> PRT

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<400> 47

Arg Asn Ser Thr

1

<210> 48

<211> 4

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Arg Thr Ser Thr

1

<210> 49

<211> 4

<212> PRT

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peptide

<400> 49

Thr Arg Tyr Ser

1

<210> 50  
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peptide

<400> 50  
Arg Ala Gln Asn  
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<210> 51  
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peptide

<400> 51  
Gln Ala Ala Thr  
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<210> 52  
<211> 4  
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<220>  
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peptide

<400> 52  
Gln Gly Thr Asn  
1

<210> 53  
<211> 4  
<212> PRT

64

C

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 53

Thr Ser Arg Asp

1

<210> 54

<211> 4

<212> PRT

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<400> 54

Gln Arg Gly Ala

1

<210> 55

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 55

Gln Ser Thr Thr

1

<210> 56

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger peptide

65

C

<400> 56  
Thr Ser Ser Ser  
1

<210> 57  
<211> 4  
<212> PRT  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 57  
Ser Ser Ser Thr  
1

12  
6875  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 58  
Thr Ile Ser Asn  
1

<210> 59  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 59  
Thr Ser Thr Ala  
1

<210> 60

<211> 4  
<212> PRT  
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<400> 60  
Thr Ser Ser Leu  
1

<210> 61  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

*C2*  
*607*  
<400> 61  
Thr Ser Ser Ile  
1

<210> 62  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 62  
Thr Ser Asn Ser  
1

<210> 63  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger

peptide

&lt;400&gt; 63

Gly Ser Asn Asp

1

&lt;210&gt; 64

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Zinc finger  
peptide

&lt;400&gt; 64

Thr Thr Ser Ser

1

&lt;210&gt; 65

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Zinc finger  
peptide

&lt;400&gt; 65

Thr Ala Gly Ser

1

&lt;210&gt; 66

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Zinc finger  
peptide

&lt;400&gt; 66

Thr Thr Ser Ser

1

608

C

<210> 67  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 67  
Thr Ser Ser Ala  
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<210> 68  
<211> 4  
<212> PRT  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

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Leu Ser Thr Thr  
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<210> 69  
<211> 4  
<212> PRT  
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peptide

<400> 69  
Leu Ser Ser Thr  
1

<210> 70  
<211> 4  
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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 70

Asp Pro His Asn

1

<210> 71

<211> 4

<212> PRT

<213> Artificial Sequence


<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 71

His Ser Lys Ser

1

 <210> 72

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 72

His Arg Gln Asn

1

<210> 73

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 73

Asp Arg Ala Asn

1

<210> 74  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 74  
Asp Arg Ala Asn  
1

<210> 75  
<211> 4  
<212> PRT  
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*02 cont*  
<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 75  
Arg Ser Gln Asp  
1

<210> 76  
<211> 4  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 76  
Gln Val Gly His  
1

<210> 77  
<211> 4  
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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 77

Gln Leu Ala Thr

1

<210> 78

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*Q223*  
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Thr Ser Gln Ala

1

<210> 79

<211> 4

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 79

Thr Ser Ala Ser

1

<210> 80

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 80  
Leu Ala Gln Thr  
1

<210> 81  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 81  
Arg Ser Arg Asp  
1

<210> 82  
<211> 4  
<212> PRT  
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<220>  
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peptide

<400> 82  
Arg Leu Arg Asp  
1

<210> 83  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 83  
His Leu Ala Thr  
1

<210> 84

<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 84  
His Leu Thr Thr  
1

<210> 85  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 85  
Val Gly His His  
1

<210> 86  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 86  
His Pro Ala Thr  
1

<210> 87  
<211> 4  
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peptide

<400> 87

His Pro Ala Asn

1

<210> 88

<211> 4

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<213> Artificial Sequence

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peptide

<400> 88

His His Ser Asn

1

<210> 89

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Asp Ser Arg Ala

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<210> 90

<211> 4

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<400> 90

Lys Ser Ser Asp

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<210> 91  
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<210> 92  
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<400> 93  
Arg Ser Ser Tyr  
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<210> 94  
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<220>

<223> Description of Artificial Sequence: Zinc finger  
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<400> 94

Arg Ser Ser Ser

1

<210> 95 .

<211> 4

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<400> 95

Arg Lys Thr Asp

1

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<211> 4

<212> PRT

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<400> 96

Gln Ile Ser Thr

1

<210> 97

<211> 4

<212> PRT

<213> Artificial Sequence

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<400> 97

Gln Ile Gly Ala



1

<210> 98  
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08/11  
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<210> 101  
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<400> 101

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<210> 102

<211> 4

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Gln Pro Gly His  
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<210> 103

<211> 4

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Gln Asp Thr Thr  
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<210> 104

<211> 4

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264974be.app

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<210> 105  
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peptide

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<210> 107  
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<210> 108

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peptide

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His His Thr Ser  
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<210> 110  
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peptide

<400> 110  
His Ala Gln Thr  
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peptide

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His Ala Thr Thr

1

<210> 112

<211> 4

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Asp His Ser Ser

1

<210> 113

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His Pro Ser Thr

1

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<400> 114

Asp Ser Ser Arg

1